

## BOOK REVIEW

**Phenology and seasonality modeling**, edited by Helmut Lieth. 1974. Springer-Verlag New York, Inc., 175 Fifth Avenue, New York, NY 10010. Hardbound, 444p., \$47.80.

Most of the papers in this very informative volume were originally presented at a symposium conducted at the 25th Annual AIBS Meeting in Minneapolis in 1972. The 38 contributions are nicely arranged into 6 Parts: (1) Introduction to phenology and the modeling of seasonality; (2) Methods for phenological studies; (3) Seasonality in trophic levels; (4) Representative biome studies; (5) Modeling phenology and seasonality; (6) Applications of phenology. Insect ecologists will probably find that at least half of the chapters provide some meaningful information for them. One paper specifically deals with phenology and seasonal modeling in insects and it is presented simply and clearly. It contains definitions of insect phenophases and it presents short discussions on seasonal arrival and departure of insects and on modeling seasonality in insects. Entomologists interested in obtaining a basic introduction to insect phenology would do well to read this paper along with a recent paper by Tauber and Tauber (1973—see literature notice below) which contains an extensive list of references.

## LITERATURE NOTICE

**Insect phenology: Criteria for analyzing dormancy and for forecasting postdiapause development and reproduction in the field**, by Maurice J. Tauber and Catherine A. Tauber. *Search (Agriculture)*, Cornell Univ. Agr. Exp. Sta., Ithaca, N.Y. Vol. 3, No. 12, pp 1 to 16. Nov., 1973.

—Paul P. Shubeck

## BOOK NOTICES

**Pollution ecology of fresh water invertebrates**, edited by C. W. Hart, Jr. and S. L. H. Fuller. 1974. Academic Press, Inc., 111 Fifth Avenue, N. Y., N. Y. 10003. Hardbound, 389p., \$24.50.

**Insect flight**, edited by R. C. Rainey. 1976. Halsted Press, Div. of John Wiley & Sons, Inc., 605 Third Ave., N. Y., N. Y. 10016. Hardbound, 288p., \$47.50.

**Biogeography: an ecological and evolutionary approach**, 2nd Edition, by C. Barry Cox, Ian N. Healey, and Peter D. Moore. 1976. Halsted Press, Div. of John Wiley & Sons, Inc., 605 Third Ave., N. Y., N. Y. 10016. Paper, 194p., \$9.95.

**An introduction to biological rhythms**, by John D. Palmer. 1976. Academic Press, Inc., 111 Fifth Avenue, N. Y., N. Y. 10003. Hardbound, 392p., \$19.50.

—Paul P. Shubeck